

## PLATE XLI.

- Fig. 4. *Chlorodius barbatus*, p. 587.  $\times 6$ .  
 4 a. " " 3rd maxilliped.  $\times 10$ .  
 4 b. " " Abdomen of male.  $\times 10$ .  
 4 c. " " Big chela of male.  $\times 6$ .  
 5. *Xanthias parvus*, p. 582.  $\times 5$ .  
 5 a. " " 3rd maxilliped.  $\times 6$ .  
 5 b. " " Abdomen of male.  $\times 6$ .  
 6. *Pilumnus rotumanus*, p. 581. Nat. size.  
 6 a. " " 3rd maxilliped.  $\times 3$ .

## PLATE XLII.

- Fig. 7. *Pachygrapsus lævis*, p. 592.  $\times 3$ .  
 7 a. " " 3rd maxilliped.  $\times 5$ .  
 8. *Sesarma gardineri*, p. 593. Nat. size.  
 8 a. " " 3rd maxilliped.  $\times 2$ .  
 8 b. " " Abdomen of male. Nat. size.  
 8 c. " " Chelæ of male.  $\times 1\frac{1}{2}$ .  
 9. ? *Pilumnus hirsutus* Stimps., p. 581.  $\times 3$ .  
 9 a. " " " 3rd maxilliped.  $\times 5$ .  
 9 b. " " " Abdomen of male.  $\times 3$ .

3. On the Birds collected during the Mackinder Expedition to Mount Kenya. By R. BOWDLER SHARPE. With Notes by H. J. MACKINDER, ERNEST SAUNDERS, and C. CAMBURN.

[Received April 24, 1900.]

## (Plate XLIII.)

[The birds here enumerated were shot by my colleagues Messrs. Campbell, B. Hausburg, Ernest Saunders, Claude Camburn, and César Ollier. They were most excellently preserved and packed by Messrs. Saunders and Camburn. For the position of the Camps referred to, see map in Geogr. Journal, vol. xv. p. 453 (1900).—H. J. M.]

## 1. FRANCOLINUS SCHUETTI.

*Francolinus schuetti*, Cab.: Ogilvie Grant, Cat. B. Brit. Mus. xxii. p. 170 (1893); Shelley, B. Africa, i. p. 180 (1896); Sharpe, Hand-l. B. i. p. 25 (1899).

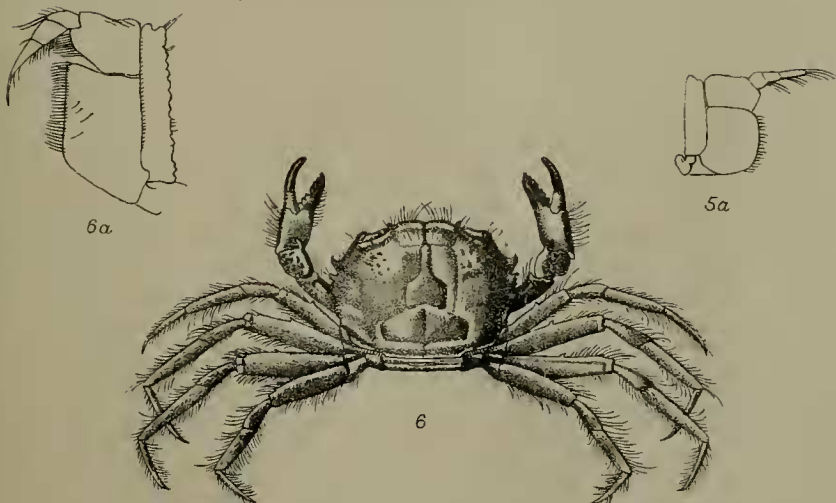
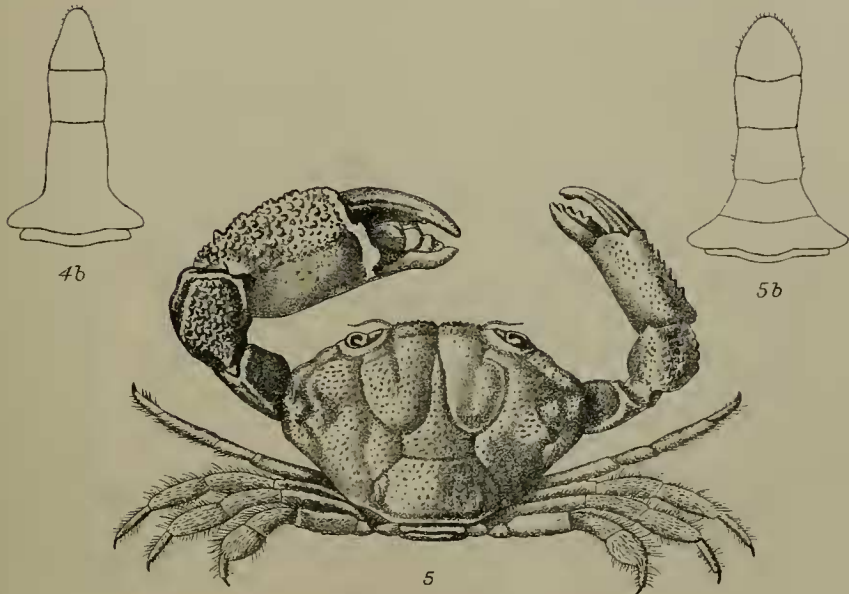
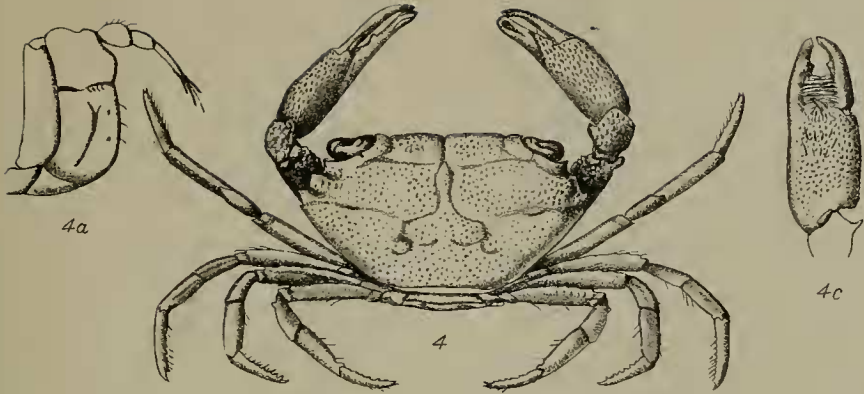
No. 9. ♀. Nairobi, 5500 feet, Sept. 13, 1899. Legs and feet bright red; bill bright red; eye hazel; fleshy parts around eye pale pink.

Uncommon, but known to Masai natives as "Lu-cu-ri."

## 2. FRANCOLINUS JACKSONI.

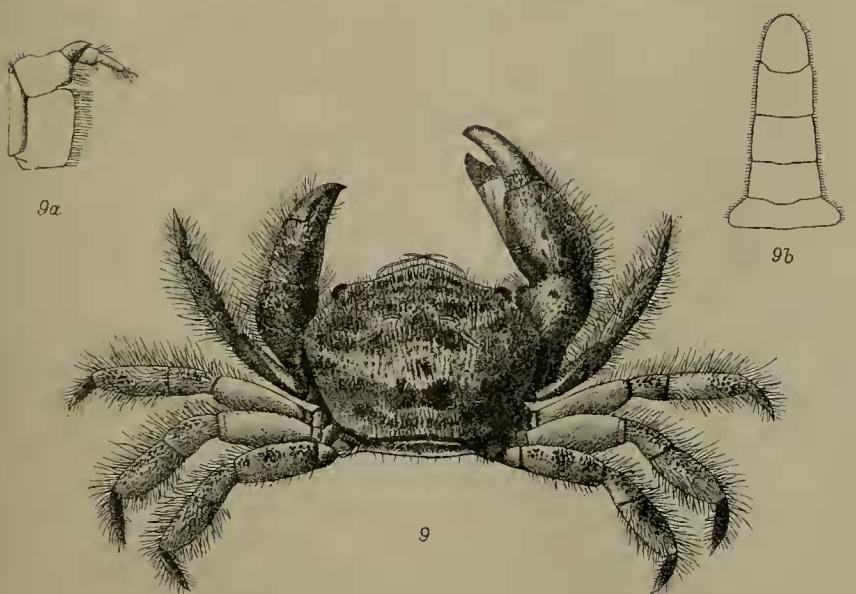
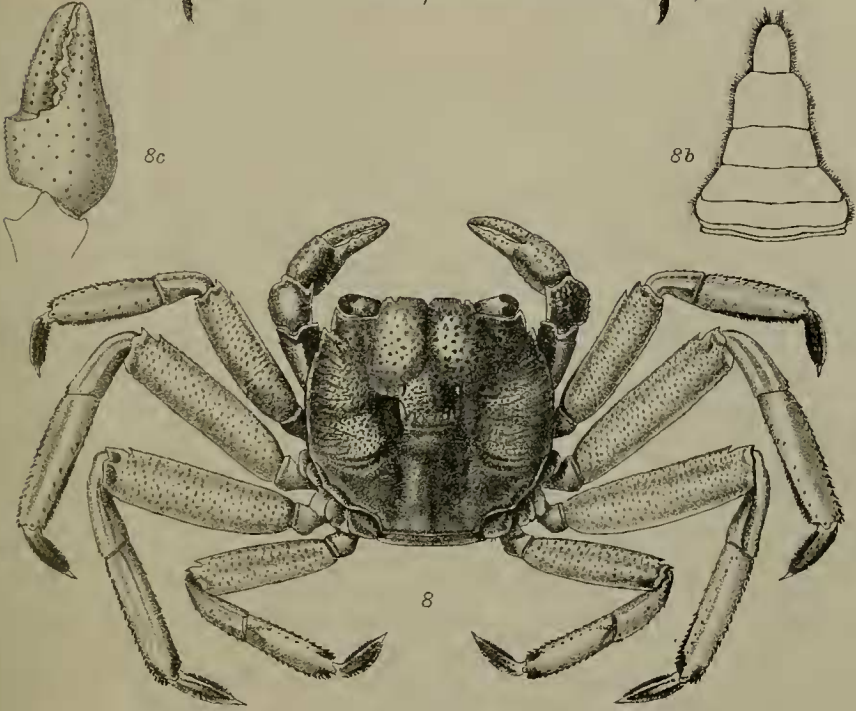
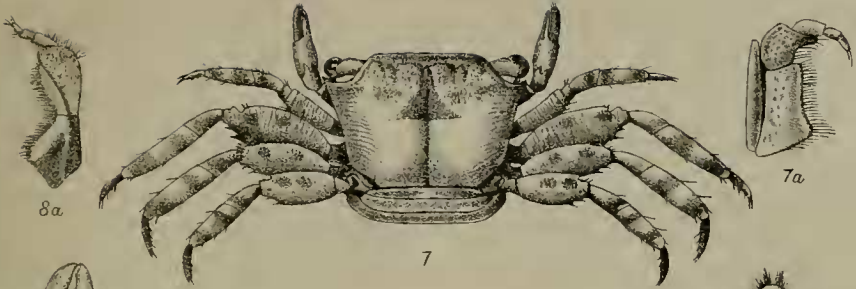
*Francolinus jacksoni*, Ogilvie Grant: Sharpe, Ibis, 1892, p. 552; id. Hand-l. B. i. p. 25 (1899); Shelley, B. Africa, i. p. 182 (1896).

No. 32. ♀. Foot of Mount Kenya, Aug. 16, 1899. Iris dark brown; bill and feet reddish brown.



E Wilson, Lith Cambridge





E. Wilson, Lith Cambridge.







*G. E. Lodge*

G. E. Lodge del. et lith.

Mintern Bros. imp.

BUBO MACKINDERI

3. *PTERNISTES INFUSCATUS*.

*Pternistes infuscatus*, Cab.: Sharpe, Ibis, 1892, p. 552; id. Hand-l. B. i. p. 26 (1899); Shelley, B. Africa, i. p. 179 (1896).

No. 30. ♂. Shot on the march to Camp 12, Aug. 10, 1899. Eyes dark brown; bill dark brown; legs and feet black; fleshy parts around eyes and throat vermilion-red; neck bright yellow.

4. *NUMIDA REICHENOWI*.

*Numida reichenowi*, Ogilvie Grant, Ibis, 1894, p. 536, fig. 1; Shelley, B. Africa, i. p. 183 (1896); Sharpe, Hand-l. B. i. p. 41 (1899).

No. 111. ♀. Shot at Camp 29 on the Morendat River, Sept. 26, 1899. Alt. 7000 feet. Iris hazel; bill horn-colour; wattles and horn red; base of horn yellow-ochre; bare skin around eyes, chin, throat, nape, and neck cobalt-blue; legs and feet black.

Common, and to be seen in various sized flocks, and always near water. We saw these birds at an altitude of over 7000 feet; they were very nice-eating.

5. *HAPLOPELIA BRONZINA*.

*Haplopelia bronzina* (Rüpp.): Salvad. Cat. B. Brit. Mus. xxi. p. 540 (1893); Shelley, B. Africa, i. p. 136 (1896); Sharpe, Hand-l. B. i. p. 85 (1899).

No. 95. ♀ ad. Forest zone, Mount Kenya (8000 feet), Sept. 18, 1899. Bill black; legs, feet, and eyelids lake-red; iris hazel.

The only specimen of its kind seen during the eight days' stay in this camp.

6. *ARDEA MELANOCEPHALA*.

*Ardea melanocephala*, Vig. & Childr.: Sharpe, Cat. B. Brit. Mus. xxvi. p. 70 (1898); id. Hand-l. B. i. p. 194 (1899); Shelley, B. Africa, i. p. 157 (1896).

No. 28. ♂. Shot July 8, 1899, Camp 11, Sagana River. Eyes pale yellow; fleshy parts around eyes mottled greenish yellow; bill, legs, and feet black.

7. *ALOPOCHEN ÆGYPTIACUS*.

*Chenalopex ægyptiacus*, (Linn.): Salvad. Cat. B. Brit. Mus. xxvii. p. 167 (1895); Shelley, B. Africa, i. p. 171 (1896).

*Alopochen ægyptiacus*, Sharpe, Hand-l. B. i. p. 215 (1899).

No. 29. ♀. Camp 11, Sagana River, Aug. 7, 1899. Iris yellow-ochre; feet white; bill pale bluish white.

The Egyptian Goose was common on all the rivers in this district, and huge flocks were observed on Lake Naivasha.

8. *ANAS SPARSA*.

*Anas sparsa*, Smith: Salvad. Cat. B. Brit. Mus. xxvii. p. 213



(1895); Shelley, B. Africa, i. p. 172 (1896); Sharpe, Hand-l. B. i. p. 216 (1899).

Nos. 99, 100. ♂, ♀. Lake Höhnel, western slope of Mount Kenya, 13,000 feet, Sept. 20, 1899. Iris hazel; bill black with a yellow-ochre band at the base; legs and toes yellow-ochre; webs black.

The only two specimens seen at this altitude.

#### 9. PELECANUS ROSEUS.

*Pelecanus roseus*, Gm.: Ogilvie Grant, Cat. B. Brit. Mus. xxvi. p. 466 (1899).

*Pelecanus minor*, Rüpp.: Shelley, B. Africa, i. p. 161 (1896).

Nos. 5 & 6. ♀ ad. Nairobi. Iris red; feet flesh-colour; fleshy parts round eye bluish pink; pouch yellowish.

These birds are considered rare in this part. They are known to the Masai natives as "Mur-turu."

#### 10. NECROSYRTES MONACHUS.

*Necrosyrtes monachus* (Temm.): Sharpe, Hand-l. B. i. p. 243 (1899).

*Neophron monachus*, Shelley, B. Africa, i. p. 155 (1896).

No. 13. ♂. Nairobi Forest, July 15, 1899. Iris hazel with blue band on outer edge; legs and feet pale blue; bill dark brown; fleshy parts of neck bluish purple; head reddish purple; wattles in neck white.

These birds are common throughout this district and also in the intervening country to Mount Kenya up to an altitude of over 8000 feet.

#### 11. BUTEO AUGURALIS.

*Buteo auguralis*, Salvad.: Sharpe, Cat. B. Brit. Mus. i. p. 175, note (1874); id. Hand-l. B. i. p. 255 (1899); Shelley, B. Africa, i. p. 150 (1896).

No. 90. Juv. Camp. 18a, western slope of Mount Kenya, 8000 feet. Iris white; bill dark blue, lighter at the base; cere, gape, and feet greenish yellow.

Rare and very hard to get at. We saw two other specimens during our stay at this camp.

#### 12. MILVUS ÆGYPTIUS.

*Milvus ægyptius* (Gm.): Sharpe, Cat. B. Brit. Mus. i. p. 320 (1874); Shelley, B. Africa, i. p. 147 (1896); Sharpe, Hand-l. B. i. p. 268 (1899).

No. 64. ♀. Camp 20, western edge of Mount Kenya, 10,000 feet, Sept. 4, 1899. Iris hazel; bill, cere, and feet bright yellow.

13. *BUBO MACKINDERI*. (Plate XLIII.)

*Bubo mackinderi*, Sharpe, Bull. B. O. C. x. p. xxviii (Dec. 1899).

Nos. 69, 70. ♂. Teleki Valley, Mount Kenya, 13,000 feet, Sept. 3, 1899. Iris deep yellow; bill black.

No. 77. ♀. Teleki Valley, Sept. 11, 1899.

14. *SYRNIUM UMBRINUM*.

*Syrnium umbrinum*, Heugl.: Reichen. Mittl. hochl. N. Deutsch-Ost-Afr. p. 272 (1898); Sharpe, Hand-l. B. i. p. 294 (1900).

No. 25. ♂. Nairobi Forest, July 1898. Iris very dark brown; bill orange-yellow; legs and feet pale yellow.

[The various races of *Syrnium woodfordi* are very difficult to diagnose, but of those admitted by Dr. Reichenow, this specimen best agrees with the description of *Syrnium umbrinum* of Heuglin.—R. B. S.]

15. *PŒOCEPHALUS MASSAICUS*.

*Pœocephalus massaicus*, Fischer & Reichen.: Salvad. Cat. B. Brit. Mus. xx. p. 367 (1891); Shelley, B. Africa, i. p. 139 (1896); Sharpe, Hand-l. B. ii. p. 25 (1900).

Nos. 86 & 87. ♂, ♀. Sept. 15, 1899, at Camp. 18a, western slope of Mount Kenya, 8000 feet.

We did not notice these birds at a lower altitude than 7000 feet, but at the above camp it was a common sight to see flocks of them in the early morn flying in a north-easterly direction and returning again just before sundown, doubtless from their favourite feeding-grounds.

16. *THIRIPIAS SCHOENSIS*.

*Thiripias schoensis* (Rüpp.): Hargitt, Cat. B. Brit. Mus. xviii. p. 308 (1890); Shelley, B. Africa, i. p. 133 (1896); Sharpe, Hand-l. B. ii. p. 219 (1900).

No. 2. ♀. July 7, 1899, Nairobi Forest. Iris red; legs and feet olive-green.

The only specimen we saw in this locality, and it was shot in the most wooded parts of the forest.

17. *CAMPOTHERA HAUSBURGI*.

*Campothera hausburgi*, Sharpe, Bull. B. O. C. x. p. xxxvi (Jan. 1900).

No. 1. ♂ ad. Nairobi, 6000 feet, July 11, 1899. Feet olive-green; iris red.

No. 98. ♂. Camp 18a; forest zone, Mt. Kenya, 6000 feet, Sept. 18, 1892. Iris red; feet ashen-green.

[Compared with a specimen of *C. tenuiolæma* in Mr. Jackson's collection from Mau, there is very little difference in the colour of the upper surface of the two species; but the lower surface is distinct enough, the coarse and dusky nature of the cross-barring

of *C. tenuicollis* being quite different from the fine and paler barring of *C. hausburgi*.

There is another specimen in the Rothschild collection at Tring which agrees with Mr. Jackson's bird; it was collected by Dr. Ansorge at the Eldoma Ravine.—R. B. S.]

#### 18. CAPRIMULGUS TRIMACULATUS.

*Caprimulgus trimaculatus* (Swains.): Hartert, *Tierr.*, *Caprimulgidae*, p. 55 (1899).

*Caprimulgus lentiginosus*, Smith: Hartert, *Cat. B. Brit. Mus.* xvi. p. 536 (1892); Shelley, *B. Africa*, i. p. 106 (1896).

No. 24. ♂. July 20, 1899. Eyes very dark blue; bill brownish black; legs and feet brown.

We found this bird chiefly on the banks of the small running creeks which intersect the forest. The general coloration of the species is beautifully adapted to its surroundings, making it most difficult at all times to discover where the bird has actually alighted.

#### 19. CAPRIMULGUS FRÆNATUS.

*Caprimulgus frænatus*, *Salvad. Ann. Mus. Genov.* xxi. p. 118 (1884); Sharpe, *Ibis*, 1892, p. 322; Hartert, *Cat. B. Brit. Mus.* xvi. p. 533 (1892); Shelley, *B. Africa*, i. p. 106 (1896); Hartert, *Tierr.*, *Caprimulgidae*, p. 59 (1899).

No. 68. ♀ imm. Western slope of Mount Kenya, 10,000 feet, Sept. 4, 1899. Bill black; legs and feet pinkish brown; iris dark hazel.

#### 20. CORACIAS CAUDATUS.

*Coracias caudatus* (Linn.): Sharpe, *Cat. B. Brit. Mus.* xvii. p. 21 (1892); Shelley, *B. Africa*, i. p. 109 (1896); Sharpe, *Hand-l. B.* ii. p. 46 (1900).

No. 23. ♀. Nairobi Forest, July 20, 1899. Eyes bright reddish brown; bill black; legs and feet greenish yellow.

Single specimens only were noticed, and invariably in the open glades and banana shambas.

#### 21. COLIUS AFFINIS.

*Colius affinis*, Shelley, *Ibis*, 1885, p. 312; *id.* *B. Africa*, i. p. 118 (1896).

No. 4. ♀. Nairobi Forest, 6000 feet. Iris hazel; legs and feet pale coral; bill dark brown; lower mandible yellowish.

[This specimen is much darker than the majority of the others in the British Museum from various localities, but there seems to be such a decided graduation in tint in a large series from light to dark brown, that I have been unable to draw any definite line of demarcation. Some of Mr. Jackson's specimens from the Ravine seem to be quite as dark as the Nairobi bird, but others from Nandi and Njemps are lighter again.—R. B. S.]

These birds travel about in various sized flocks; and on the lower slopes of Mt. Kenya I have noticed fully 80 or 90 at a time; they present a curious sight when on the wing, their exceedingly long tails causing a most peculiar motion. Their flight is somewhat slow.

#### 22. *TURACUS HARTLAUBI*.

*Turacus hartlaubi* (Fischer & Reichen.): Sharpe, Ibis, 1892, p. 312; Shelley, B. Africa, i. p. 120 (1896).

No. 3. ♀ ad. Nairobi Forest (5500 feet), July 11, 1899. Iris hazel; feet black; bill dark green, tip orange.

No. 10. ♂ ad. Nairobi Forest (5500 feet), July 15, 1899.

No. 19. ♂ ad. Nairobi Forest (5500 feet), July 18, 1899.

These birds are common in this locality and are also to be met with on Mount Kenya at an altitude of 9000 feet. They utter a cry not unlike the Francolin which is to be found there. Masai native name: "Kal-ler-wa."

#### 23. *HAPALODERMA NARINA*.

*Hapaloderma narina* (V.): Sharpe, Ibis, 1892, p. 321; Shelley, B. Africa, i. p. 108 (1896).

No. 20. ♂. Nairobi Forest, 5500 feet, July 19, 1899. Iris red; bill yellow at base, darkening to grey at the tip; feet pinkish brown.

No. 20. ♀. Camp 18, western slope of Mount Kenya, 8000 feet, Sept. 15, 1899. Iris reddish brown; bill yellow at base, shading to green at tip; feet pale pinkish brown.

Uncommon.

#### 24. *BYCANISTES CRISTATUS*.

*Bycanistes cristatus* (Rüpp.): Grant, Cat. B. Brit. Mus. xvii. p. 417 (1892); Shelley, B. Africa, i. p. 114 (1896).

Nos. 11, 12. ♂ ♀ ad. Nairobi Forest, July 14, 1899. Bill brown, casque white; iris dark brown; feet black, with white between the scales.

These birds were mostly found in pairs, and are very wary. Alighting on the most lofty (usually dead) trees, they would be off at the slightest noise, or at the sight of anything moving beneath. Common.

#### 25. *IRRISOR JACKSONI*.

*Irrisor jacksoni*, Sharpe, Ann. Mag. Nat. Hist. [6] vi. 1890, p. 503; Salvin, Cat. B. Brit. Mus. xvi. p. 21, pl. iii. fig. 1; Sharpe, Ibis, 1892, p. 319; Shelley, B. Africa, i. p. 112 (1896).

Nos. 85, 91, 93, 94. Three females and one male were shot at Camp 18 a, Kenya Forest, alt. 8000 feet. Iris reddish brown; bill, legs, feet, and eyelids lake-red.

These birds were found in small flocks of about twenty. They

are very active, travelling from tree-top to tree-top, and apparently feeding on small fruit with which some of the trees abounded.

26. MELITTOPHAGUS SHARPEI.

*Melittophagus sharpei*, Hartert, Bull. B. O. C. x. p. xxvii (Dec. 1899).

*Melittophagus cyanostictus* (nec Cab.): Sharpe, Cat. B. Brit. Mus. xvii. p. 48, pl. i. fig. 3 (1892); id. Ibis, 1892, p. 319; Shelley B. Africa, i. p. 110 (1896).

Nos. 26, 27. ♂, ♀. Camp 11, Sagana River, Aug. 7, 1899. Eyes crimson; bill, legs, and feet black.

Single specimens only were noticed, which mostly frequented the banks of the river.

27. MELITTOPHAGUS OREOBATES.

*Melittophagus oreobates*, Sharpe, Ibis, 1892, p. 320; id. Cat. B. Brit. Mus. xvii. p. 498 (1892); Shelley, B. Africa, i. p. 110 (1896).

No. 22. ♀. Nairobi Forest, July 19, 1899. Eyes dark red; bill black; legs pale slate-colour; feet darker.

This bird chiefly inhabits the banana shambas in the Nairobi district.

28. CORVULTUR ALBICOLLIS.

*Corvultur albicollis* (Lath.): Sharpe, Cat. B. Brit. Mus. iii. p. 24 (1877); Shelley, B. Africa, i. p. 46 (1896).

No. 41. ♂. Bamboo zone, western slope of Mount Kenya, 8000 feet, Aug. 26, 1899.

Nos. 88, 89. ♂, ♀. Camp 18, western slope of Mt. Kenya, 8000 feet, Sept. 16, 1899. Bill black, with white tip; feet black; iris hazel.

These birds were obtained also at Nairobi, and were noticed throughout the intervening country and up to an altitude of 10,000 feet on Mount Kenya itself.

29. CINNAMOPTERUS TENUIROSTRIS.

*Cinnamopterus tenuirostris* (Rüpp.): Sharpe, Cat. B. Brit. Mus. xiii. p. 166 (1890); Shelley, B. Africa, i. p. 45 (1896).

No. 51. ♂ ad. Camp 21, Höhnel Valley, western slope of Mt. Kenya, 12,000 feet, Aug. 30, 1899. Among rocks and caves. Iris hazel; bill and feet black.

Nos. 55, ♂; 56, 57, ♀. Camp 21, Aug. 30, 1899.

[These specimens agree with others in the British Museum from Shoa and Abyssinia, and there is another specimen in Mr. Jackson's collection from Ruwenzori. It should be noticed that both the female birds have the grey edges to the feathers which I formerly considered to be characteristic of the young of this species.—R. B. S.]

Although fairly common among the crags at the head of the Höhnel Valley, this species was not observed in any other locality.

## 30. LAMPROCOLIUS CHALYBEUS.

*Lamprocolius chalybeus* (Ehr.): Sharpe, Ibis, 1891, p. 242; Shelley, B. Africa, i. p. 43 (1896).

No. 110. ♂ ad. Morendat River (7000 ft.), Sept. 1899. Iris bright yellow; bill, legs, and feet black.

This species was not observed at a higher altitude than that mentioned above. It was not found in the hilly districts, but seemed confined to the reed-beds of the rivers traversing the plains, and was observed on the Nairobi River as well as at the Morendat.

## 31. DREPANOPECTES JACKSONI.

*Drepanoplectes jacksoni*, Sharpe: Jackson, Ibis, 1899, p. 599.

*Coliipasser jacksoni*, Shelley, B. Africa, i. p. 24 (1896).

No. 101. ♂ ad. Western foot of Mount Settima range (7000 ft.), Sept. 26, 1899. Bill, base and lower mandible black, upper part pale green; legs and feet very dark brown; iris hazel.

No. 102. ♀ ad. Western foot of Mount Settima range (7000 ft.), Sept. 26, 1899. Bill, legs, and feet pinkish horn-colour.

These birds travel about in flocks of thirty or forty together, and seem to be common along these ranges.

## 32. HYPHANTORNIS CAMBURNI.

*Hyphantornis camburni*, Sharpe, Bull. B. O. C. x. p. xxxv (Jan. 1900).

No. 16. ♂ ad. Nairobi Forest, 5500 feet, July 17, 1899. Bill dark brown; feet pale brownish; iris hazel.

Common; observed in small flocks; known to Masai natives as "Ging-yangiki."

[Although sexed a male, I think this bird must be a female, as it agrees so well with the hens of *Hyphantornis vanthops*. It is of a brighter yellow below, has a somewhat more distinct yellow eyebrow, but is principally distinguished by its very small bill.—R. B.S.]

## 33. AMBLYOSPIZA UNICOLOR.

*Amblyospiza unicolor*, Fisch. & Reichen.: Shelley, B. Africa, i. p. 33 (1896).

No. 31. ♀ imm. Aug. 10, 1898. Bill, upper mandible dark brown, lower mandible yellowish; legs and feet dark brown; iris dark brown.

Collected on the march; the only specimen observed of this species.

## 34. DREPANORHYNCHUS REICHENOWI.

*Drepanorhynchus reichenowi*, Fischer: Jackson, Ibis, 1899, p. 630.

*Nectarinia reichenowi*, Shelley, B. Africa, ii. p. 29 (1900).

No. 105. ♂. Camp 27, foot of Settima Range, 7000 feet, Sept. 25, 1899. Bill and feet black; iris hazel.